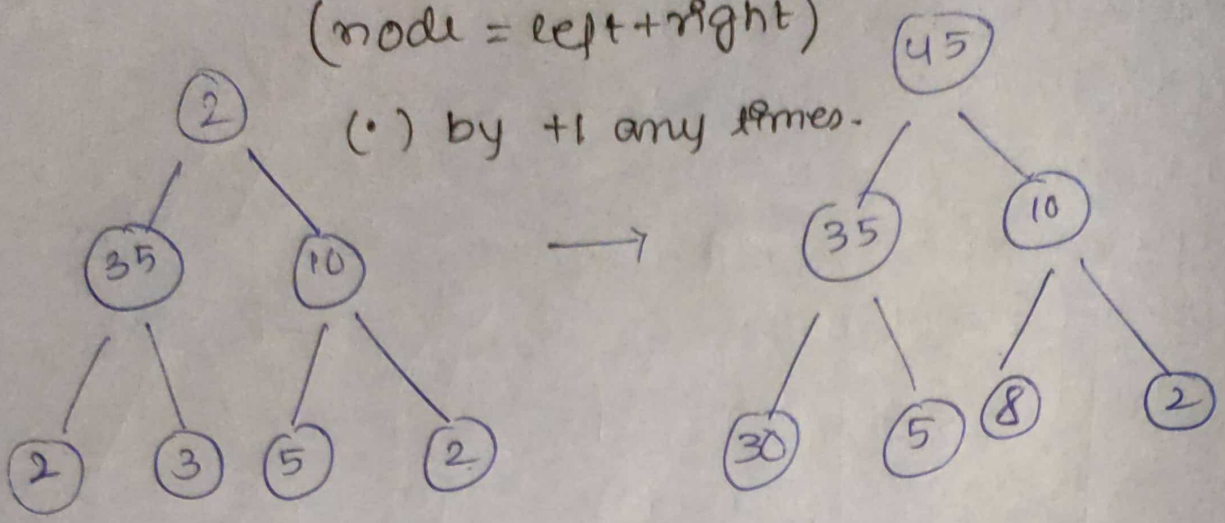
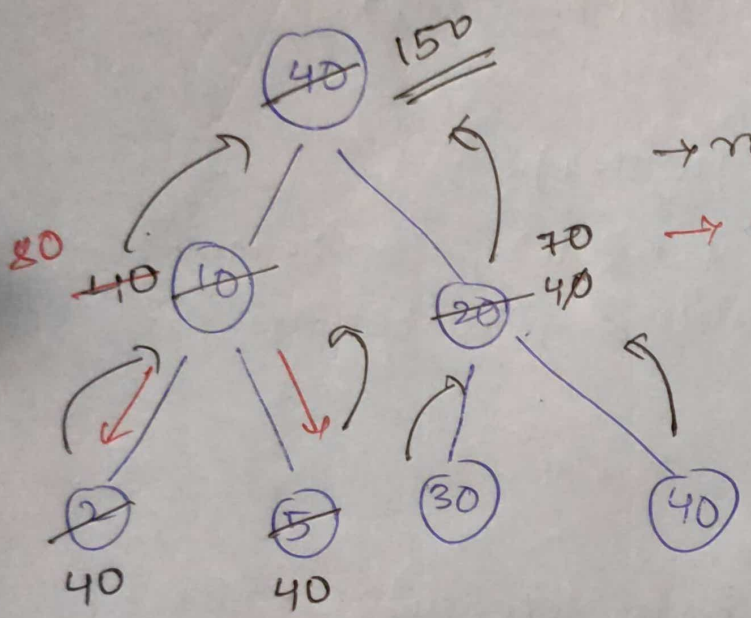
Children Sum Property in Binary Tree:-

(node = left + right)

(•) by +1 any times.





10+20 = 30 < 40

→ reassign both to 40

→ move left, right.

2+5 = 7 < 40

reassign.

→ move left, right

== NULL

return

add them.

Right subtree

30+40 = 70

no left, right

return

Code :-

```
reorder
void changeTree (BTNode<int> *root) {
    if (root == NULL) return;
    int child = 0;
    if (root->left) {
        child += root->left->data;
    }
    if (root->right) {
        child += root->right->data;
    }
if (child >= root->data) root->data = child;
else {
    if (root->left) root->left->data = root->data;
    else if (root->right) root->right->data = root->data;
}
reorder (root->left);
reorder (root->right);

int tot = 0;
if (root->left) tot += root->left->data;
if (root->right) tot += root->right->data;
if (root->left or root->right) root->data = tot;
}
void changeTree (BT<int> * root) {
    reorder (root);
}
```